

LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		ATTY DOCKET NO. 9261.16761-DIV	SERIAL NO. 09/669,104
CUSTOMER NO. 26308 		APPLICANT Aboul-Hosn	TECHNOLOGY CENTER 3700 RECEIVED AUG 17 2004
		FILING DATE 25 September 2000	

U.S. PATENT DOCUMENTS

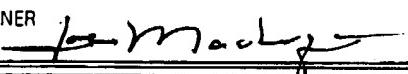
Examiner Initial	DOCUMENT NUMBER	Date	Name	Class	Subclass	Filing Date (if Applicable)
DR	4,944,748 *	07/1990	Bramm et al.			
1	4,955,856 *	9/1990	Phillips			
	5,040,944 *	08/1991	Cook			
	5,741,234 *	04/1998	Aboul-Hosn			
	6,083,260 *	07/2000	Aboul-Hosn			
	6,086,570 *	07/2000	Aboul-Hosn et al.			
	6,113,536 *	09/2000	Aboul-Hosn et al.			
	6,123,725 *	09/2000	Aboul-Hosn			
	6,152,704 *	11/2000	Aboul-Hosn et al.			
	6,210,133 *	04/2001	Aboul-Hosn et al.			
	6,210,397 *	04/2001	Aboul-Hosn et al.			

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	DOCUMENT NUMBER	DATE	COUNTRY	Class	Subclass	Translation Yes No
DR	1 222 355	Jun 87	Canada			
1	1 240 802	Aug 88	Canada			
1	1 302 829	Jun 92	Canada			
1	1 308 319	Oct 92	Canada			
1	1 323 467	Oct 93	Canada			

OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Pages, Etc.*)

DR	Takami, Yoshiyuki, et al., "Effect of Surface Roughness on Hemolysis in a Centrifugal Blood Pump", ASAIO Journal; vol. 42 pp. M858-N862.
1	Takami, Yoshiyuki, et al., "Effect of Surface Roughness on Hemolysis in a Pivot Bearing Supported Gyro Centrifugal Pump (CIE3)", Artificial Organs; vol. 20, No. 11, pp. 1156-1161, 1996
1	Takami, Yoshiyuki, et al., "Material of the Double Pivot Bearing System in the Gyro CIE3 Centrifugal Pump", Artificial Organs, vol. 21, No. 2, pp. 143-147, 1997.

EXAMINER 	DATE CONSIDERED 9/24/04
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<p>LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i></p> <p>O P E R A T I O N S C O M M U N I C A T I O N S</p> <p>CUSTOMER NO. 26308</p>	ATTY DOCKET NO. 9261.16761-DIV	SERIAL NO. 09/669,104
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A circular stamp with "U.S. PATENT AND TRADEMARK OFFICE" around the perimeter, "WASHINGTON, D.C." at the bottom, and "AUG 1 1 2004" in the center.

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Examiner Initial	DOCUMENT NUMBER	Date	Name	Class	Subclass	Filing Date (If Appropriate)
dm	6,228,063 *	05/2001	Aboul-Hosn			
	6,234,960 *	05/2001	Aboul-Hosn et al.			
	6,287,319 *	09/2001	Aboul-Hosn et al.			
	6,295,877 *	10/2001	Aboul-Hosn et al.			
	6,395,026 *	05/2002	Aboul-Hosn et al.			
	6,532,964 *	03/2003	Aboul-Hosn et al.			
	2003/0023201 *	01/2003	Aboul-Hosn et al.			
	2003/0205233 *	11/2003	Aboul-Hosn et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	Class	Subclass	Translation Yes No
+	1 328 708	Apr 94	Canada			
1	280 225	Aug 88	EPO			
1	0157871 B1	Jul 90	EPO			
1	0445782	Sep 91	EPO			
1	0157859	Apr 92	EPO			

OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Pages, Etc.*)

<input checked="" type="checkbox"/>		Takano, Hisateru, et al., "Ventricular Assist Systems: Experience in Japan with Toyobo Pump and Zeon Pump", <i>Annals of Thoracic Surgery</i> , 1996; 61:317-22.
<input checked="" type="checkbox"/>		Tsukiya, Tomonori, "Use of Motor Current in Flow Rate Measurement for the Magnetically Suspended Centrifugal Blood Pump", <i>Artificial Organs</i> , vol. 21, No. 5, pp. 396-401, 1997.
<input checked="" type="checkbox"/>		Allaire, P.E., et al., "Prototype Continuous Flow Ventricular Assist Device Supported on Magnetic Bearings", <i>Artificial Organs</i> , vol. No. 6, pp. 582-590, 1996.

EXAMINER <u>J. Mardigian</u>	DATE CONSIDERED 9/24/04
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	DOCUMENT NUMBER	DATE	COUNTRY	Class	Subclass	Translation Yes No
+	0396575	Mar 94	EPO			
1	0397668	Mar 94	EPO			
1	0611580	Aug 94	EPO			
1	0478635	Dec 94	EPO			
1	0629412	Dec 94	EPO			

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1		Anai, Hirofumi, et al, "Relationship Between Pump Speed Design and Hemolysis in an Axial Flow Blood Pump", Artificial Organs, vol. 20, No. 6, pp. 564-567, 1996.
2		Andrade, Aron, et al, "Characteristics of a Blood Pump Combining the Centrifugal and Axial Pumping Principles: The Spiral Pump", Artificial Organs, vol. 20, No. 6, pp. 605-612, 1996.
3		Burgreen, Greg W., et al, "A Design Improvement Strategy for Axial Blood Pumps Using Computational Fluid Dynamics", ASAIO Journal, 42:M354-M360, 1996.

EXAMINER <u>Jay M. Jorgenson</u>	DATE CONSIDERED 9/24/04
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	DOCUMENT NUMBER	DATE	COUNTRY	Class	Subclass	Translation Yes No
	0397720	Mar 95	EPO			
	0659443	Jun 95	EPO			
	0591208	Nov 95	EPO			
	0699447	Mar 96	EPO			
	0611580	Dec 96	EPO			

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		Kaufmann, Ralf, et al, "The Implantable Fuzzy Controlled Helmholtz-Left Ventricular Assist Device: First in Vitro Testing", Artificial Organs, Vol. 21, No. 2, pp. 131-137, 1997
		Kawahito, K., et al, "Ex Vivo Evaluation of the NASA/DeBakey Axial Flow Ventricular Assist Device", ASAIO Journal, 42:M754-M757, 1996.
		Khanwilker, Pratap, et al, "Using Hybrid Magnetic Bearings to Completely Suspend the Impeller of a Ventricular Assist Device", Artificial Organs, vol. 20, No. 6, pp. 597-604, 1996.

EXAMINER <u>Jeanne M. Murphy</u>	DATE CONSIDERED 9/24/14
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	DOCUMENT NUMBER	DATE	COUNTRY	Class	Subclass	Translation Yes No
+	0 768 091	Apr 97	EPO			
1)	2233 293	Jan 73	Germany			
	24 53 296	May 76	Germany			
	286 145	Jan 71	Russian Federation			
	545 358	Jul 77	Russian Federation			

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<input checked="" type="checkbox"/>		McCarthy, Patrick M., et al, "Permanent Mechanical Circulatory Support With an Implantable Left Ventricular Assist Device", Annals of Thoracic Surgery; 63:1458-61, 1997.
<input checked="" type="checkbox"/>		Nishimura, Kazunobu, et al, "Development of a Magnetically Suspended Centrifugal Pump as a Cardiac Assist Device for Long-Term Application", ASAIO Journal pp. 68-71, 1996.
<input checked="" type="checkbox"/>		Kubo, Hironao, "Marine Propellers: The Latest Topics", Artificial Organs, vol. 21, No. 2, pp. 109-113, 1996.

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	DOCUMENT NUMBER	DATE	COUNTRY	Class	Subclass	Translation Yes No
	WO 85/01432	Apr 85	PCT			
	WO 85/01436	Apr 95	PCT			
	WO 88/07842	Oct 88	PCT			
	WO 89/04644	Jun 89	PCT			
	WO 89/04645	Jun 89	PCT			

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<input checked="" type="checkbox"/>		Nakazawa, Tadashi, et al., "The Development of Pivot Bearing Supported Sealless Centrifugal Pump for Ventricular Assist", Artificial Organs, vol. 20, No. 6, pp. 485-490, 1996
<input checked="" type="checkbox"/>		Nakazawa, Tadashi, et al., "The Effect of the Impeller-Drive Magnetic Coupling Distance on Homolysis in a Compact Centrifugal Pump", Artificial Organs, vol. 20, No. 3, pp. 252-257, 1996.
<input checked="" type="checkbox"/>		Rosenfeldt, Franklin L., et al., "A Novel Valveless Rotary Pump for Cardiac Assist", Artificial Organs, vol. 21, No. 5, pp. 420-425, 1997.

EXAMINER <u>Joe Mardig</u>	DATE CONSIDERED 9/24/04
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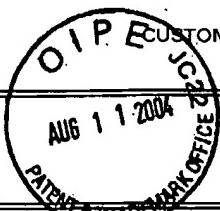
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	WO 90/15640	Dec 90	PCT			
	WO 91/01584	Feb 91	PCT			
	WO 92/02263	Feb 92	PCT			

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EXAMINER <u>Joe Marling</u>	DATE CONSIDERED 9/24/14
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	DOCUMENT NUMBER	DATE	COUNTRY	Class	Subclass	Translation Yes No
✓	WO 92/03181	Mar 92	PCT			
✓	WO 92/06297	Apr 92	PCT			
✓	WO 93/07388	Apr 93	PCT			
✓	WO 93/20860	Oct 93	PCT			
✓	WO 94/06486	Mar 94	PCT			

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EXAMINER <u>John Marquez</u>	DATE CONSIDERED 9/24/04
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CUSTOMER NO. 26308 <i>IPF</i>	FILING DATE 25 September 2000	GROUP 3762
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✓		WO 94/09274	Apr 94	PCT			
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		WO 95/00185	Jan 95	PCT			
		WO 95/28185	Oct 95	PCT			

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EXAMINER <i>[Signature]</i>	DATE CONSIDERED 9/24/04
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Examiner Initial	DOCUMENT NUMBER	Date	Name	Class	Subclass	Filing Date (If Appropriate)

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	DOCUMENT NUMBER	DATE	COUNTRY	Class	Subclass	Translation Yes No
7	WO96/18358	08/1996	PCT			
1	WO97/40751	11/1997	PCT			
	5071492	03/1993	JP			
	WO99/02204 *	01/1999	PCT			
	WO99/65546 *	12/1999	PCT			
	WO00/12148 *	03/2000	PCT			
	WO00/18448 *	04/2000	PCT			
	WO00/19097 *	04/2000	PCT			
	WO00/69489 *	11/2000	PCT			

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	Daily, Bill B., et al. "Pierce-Donarchy Pediatric VAD: Process in Development", Annals of Thoracic Surgery; 61:437-443, 1996.
	Golding, Leonard A.R., et al., "The Cleveland Clinic Rotodynamic Pump Program", Artificial Organs, vol. 20, No. 6, pp. 481-484, 1996.
	Hart, Robert M., et al., "A Magnetically Suspended and Hydrostatically Stabilized Centrifugal Blood Pump", Artificial Organs, vol. 20, No. 6, pp. 591-596, 1996.

EXAMINER <i>for M. Marley</i>	DATE CONSIDERED <i>9/24/04</i>
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